

Abstract

The present invention discloses:

an antenna for detecting a magnetic field, wherein a plurality of loop antennas wound in opposite directions are
5 connected in series and placed in a plane,

a magnetic field detector comprising a plurality of the above antennas for detecting a magnetic field and an output circuit for taking out a differential output between the outputs of the plurality of antennas, and

10 a gate for detecting detection tag comprising the above magnetic field detector and a coil for magnetic field generation.